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Listing of the Claims:

The following claims will replace all prior versions of the claims in this application:

1. (Previously presented) A process for the preparation of a compound of formula (1):

which comprises reacting a compound of formula (2):

with a compound of formula Al(OR)₃, under substantially anhydrous conditions wherein:

X, and X1 are each independently H or a protecting group;

B is a nucleobase; and

R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, each of which may be substituted by one or more of halogen or amino substituents; and

L is a leaving group.

- 2. (Previously presented) A process according to claim 1, wherein the leaving group is selected from the group consisting of -OSO₂CH₃, -OSO₂CF₃, Cl, Br, I, O-Mesyl, O-Brosyl, O-Tosyl and the nucleobase, B, chemically bonded to the 2'-position, via an oxygen or sulphur atom or a moiety of formula -NR^x-, wherein R^x is H or a C₁₋₆ alkyl or an aryl group.
- 3. (Previously presented) A process for the preparation of a compound of formula (3):

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which comprises reacting a compound of formula (4)

with a compound of formula Al(OR)₃, under substantially anhydrous conditions wherein:

X, and X1 are each independently H or a protecting group;

R¹ and R² are each independently H, alkyl, alkenyl, alkynyl, or halogen; and R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, each of which may be unsubstituted or substituted by one or more of halogen or amino substituents.

- 4. (Original) A process according to claim 3, wherein R^1 and R^2 are both H, or R^1 is $C_{1\cdot4}$ alkyl, and R^2 is H.
- 5. (Previously presented) A process according to claim 1 or claim 3, wherein R is a C₁₋₄ alkenyl group, a C₁₋₄ alkyl group, a C₁₋₄ alkyl group or a C₁₋₄ alkynyl group.
- 6. (Original) A process according to claim 5, wherein R is a methoxyethyl group.
- 7. (Previously presented) A process according to claim 1 for the preparation of a compound of Formula (1) wherein B represents cytosine, or a substituted derivative thereof, which comprises:

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- a) preparing said compound of Formula (1) wherein B represents uracil, or a substituted derivative thereof; and
- b) converting the uracil moiety to the equivalent cytosine moiety.
- 8. (Previously presented) A process for the preparation of a product oligonucleotide which comprises the coupling to a nucleoside or an oligonucleotide of a compound prepared by a process according to any one of claims 1, 3, 7 or 9.
- 9. (Previously presented) A process for the preparation of a compound of Formula (1)



wherein X and X1 are each, independently, H or a protecting group;

R is an alkyl, alkoxyalkyl, alkenyl, or alkynyl group, each of which may be unsubstituted or substituted by one or more of halogen or amino substituents; and

B represents cytosine, or a substituted derivative thereof; which comprises

- a) preparing a compound of formula (3), by a process according to claim 3; and
- b) converting the uracil moiety to the equivalent cytosine moiety.
- 10. (Previously presented) A process according to claim 1 or claim 3, wherein X and X^1 each represent H.
- 11. (Previously presented) A process according to claim 1 or claim 3, wherein at least one of X and X¹ represent said protecting group.
- 12. (Previously presented) A process according to claim 11, wherein the protecting group or groups are selected from the group consisting of acid labile protecting groups, acid-labile acetal protecting groups; and base labile-protecting groups.

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- (Previously presented) A process according to claim 1, wherein the leaving 13. group L is selected from the group consisting of -OSO₂CH₃, -OSO₂CF₃, Cl, Br, I, O-Mesyl, O-Brosyl, and O-Tosyl.
- 14. (Previously presented) A process according to claim 1, wherein the leaving group L is a pyrimidine.